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PHYTOLOGIA

An international journal to expedite plant systematic, phytogeographical
and ecological publication

Vol. 70

June 1991

No.6

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Published by Michael J. Warnock
185 Westridge Drive Huntsville, Texas 77340 U.S.A.
PHYTOLOGIA is printed on acid free paper.

PHYTOLOGIA (ISSN 00319430) is published monthly by Michael J. Warnock, 185 Westridge Drive, Huntsville, TX 77340-8916. Second Class postage at Huntsville, TX. Copyright ©1990 by PHYTOLOGIA. Domestic individual subscription (6 issues): \$18.00. Domestic institutional subscription (6 issues): \$20.00. Foreign and/or airmail postage extra. Single copy sales: Current issue and back issues volume 67 to present, \$3.50; Back issues (previous to volume 67), \$3.00 (add \$.50 per copy postage and handling US [\$1.00 per copy foreign]). Back issue sales by volume: \$17.00 per volume 42-66 (not all available as complete volumes); \$21.00 per volume 67-present; add \$2.00 per volume postage US (\$4.00 per volume foreign). POSTMASTER: Send address changes to Phytologia, 185 Westridge Drive, Huntsville, TX 77340-8916.

**VERBESINA MACHUCANA (ASTERACEAE), A NEW SPECIES FROM
JALISCO, MÉXICO**

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ABSTRACT

Verbesina machucana spec. nov., a yellow rayed, herbaceous species with winged stems from Cerro Viejo, Jalisco, México, is described and illustrated.

KEY WORDS: Asteraceae, *Verbesina*, México

Routine identification of Mexican Asteraceae has revealed the following novelty in *Verbesina*.

Verbesina machucana B. Turner, spec. nov. Fig. 1. TYPE: MÉXICO. Jalisco: Mpio. Tlajomulco de Zuniga, lagera N al W de San Miguel Cuyutlan en el paraje el llano, Cerro Viejo, matorral de encino, 1950-2100 m, 26 Dec 1986, J.A. Machuca N. 5321 (HOLOTYPE: TEX!; Isotype; IGE).

Verbesinae apiculatae Coleman similis sed foliis ovatis et capitulis numerosioribus in cymis dispositis differt.

Suffruticose herb ca. 42 cm high. Stems sparsely puberulent to glabrate, narrowly winged throughout. Leaves mostly alternate, 6-9 cm long, 2-3 cm wide; petioles 2-3 cm long, winged throughout; blades ovate, subpinnately veined, moderately to sparsely puberulent on both surfaces, mostly along the principal veins, the margins irregularly serrate to somewhat lobate. Heads ca. 15 mm wide across the expanded rays, arranged in terminal flat topped cymes, ca. 9 cm high, ca. 12 cm across, the ultimate peduncles strigopuberulous, mostly 1-3 cm long. Involucre 4-6 mm high, the bracts 2-3 seriate, subgraduate to subequal, linear-lanceolate, the apices acute to apiculate. Receptacle convex, paleate, the pales grading into the bracts. Ray florets 5-11, pistillate, fertile, the ligules yellow, mostly linear, 4-6 mm long, ca. 1 mm wide,

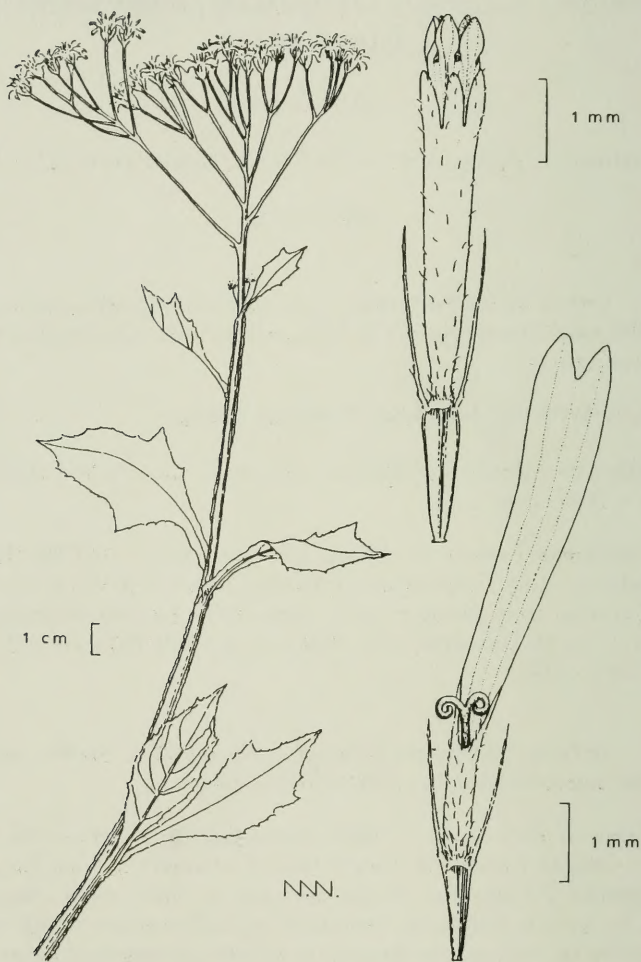


Fig. 1. *Verbesina machucana*, from holotype.

the apices 2(3) lobed. Disk corollas 8-10 per head, yellow, ca. 4 mm long, the tube ca. 1 mm long, densely pubescent, the limb tubular, ca. 3 mm long, the lobes ca. 0.75 mm long, acute. Achene (immature) ca. 2 mm long, glabrous, the pappus of 2 readily deciduous awns, 2-3 mm long.

This is a very distinct taxon with no obvious close relatives. It has the habit and winged stems of species belonging to the *Verbesina pantopectera* S.F. Blake-*V. apiculata* Coleman complex, but unlike these it possesses the many headed, flat topped, capitulescence of the shrubby *V. fastigiata* Robins. & Greenm. complex.

It is a pleasure to name the species for its only known collector, working out of the University of Guadalajara.

ACKNOWLEDGMENTS

I am grateful to Dr. Guy Nesom for the Latin diagnosis and to him and Dr. T.P. Ramamoorthy for reviewing the manuscript. Nancy Webber provided the illustration.

NEW COMBINATIONS IN *SOLIDAGO SIMPLEX* (COMPOSITAE:
ASTEREAE)

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ABSTRACT

The following new combinations are made to bring earlier work by Ringius in line with recent nomenclatural observations by others: *Solidago simplex* Kunth ssp. *simplex* var. *nana* (A. Gray) Ringius, *S. simplex* ssp. *simplex* var. *chlorolepis* (Fern.) Ringius, *S. simplex* ssp. *randii* (Porter) Ringius, *S. simplex* ssp. *randii* var. *monticola* (Porter) Ringius, *S. simplex* ssp. *randii* var. *racemosa* (E. Greene) Ringius, *S. simplex* ssp. *randii* var. *gillmanii* (A. Gray) Ringius, *S. simplex* ssp. *randii* var. *ontarioensis* (Ringius) Ringius.

KEY WORDS: *Solidago simplex*, *Solidago glutinosa*, Compositae, Astereae

Nesom (1989) noted that *Solidago glutinosa* Nutt. was a synonym of *S. simplex* Kunth. Cronquist (1947) had treated the complex as *S. glutinosa*, and subsequently as part of *S. spathulata* DC. e.g., Cronquist (1955, 1968). Ringius (1985, 1987a, 1987b) had revised the complex and Ringius & Semple (1987) had presented the cytogeography under the name *S. glutinosa*. The following new combinations in the *S. simplex* complex are made to bring the work of Ringius in line with the most recent data on nomenclature and to make these combinations immediately available to those doing floristic studies. A complete synonymy and full discussion of the taxa will be presented elsewhere.

Solidago simplex Kunth, *Nov. Gen.* 103. 1818. TYPE: MÉXICO. Santa Rosa, Sep s.a., *Humboldt & Bonpland s.n.* (HOLOTYPE: P, fiche!)

Solidago simplex Kunth ssp. *simplex*.

Solidago glutinosa Nutt. ssp. *glutinosa*, Cronq., *Rhodora* 49:76. 1947.

Solidago spathulata DC. ssp. *glutinosa* (Nutt.) Keck, *Aliso* 4:104. 1958.

Solidago simplex Kunth ssp. *simplex* var. *simplex*.

Solidago glutinosa Nutt., Trans. Amer. Phil. Soc., n.s. 7:328. 1841. *Solidago glutinosa* Nutt. ssp. *glutinosa* var. *glutinosa*, Cronq., Rhodora, 49:76. 1947. *Solidago spathulata* DC. ssp. *glutinosa* (Nutt.) Keck, Aliso 4:104. 1958. TYPE: U.S.A. "On the Oregon and Wahlemet rivers," Nuttall s.n. (LECTOTYPE [Ringius, Taxon 35:155. 1987.]: BM!; Isotype: PH!).

Solidago simplex Kunth ssp. *simplex* var. *nana* (A. Gray) Ringius, *comb. nov.* BASIONYM: *S. humilis* Pursh var. *nana* A. Gray, *Syn. Fl. N. Amer.* 1, pt. 2:148. 1884. *Solidago purshii* Porter var. *nana* (A. Gray) Farwell, *Amer. Midl. Nat.* 12:72. 1930. *Solidago glutinosa* Nutt. ssp. *glutinosa* var. *nana* (A. Gray) Cronq., Rhodora 49:76. 1947. *Solidago spathulata* DC. var. *nana* (A. Gray) Cronq., *Vasc. Pls. Pacif. Northw.* 5:311. 1955. SYNTYPES: U.S.A. Washington: Mt. Adams, high up, 1882, Howell s.n. (LECTOTYPE [Ringius, Taxon 36:155. 1987.]: GH!). Mt. Adams, Suksdorf s.n. (GH-2!, NY!). Colorado: Parry 18 (GH!). Oregon: 1871, Hall 258 (NY-2!, GH!; all = var. *simplex*).

Solidago simplex Kunth ssp. *simplex* var. *chlorolepis* (Fern.) Ringius, *comb. nov.* BASIONYM: *Solidago chlorolepis* Fern., Rhodora 17:3. 1915. *Solidago decumbens* E. Greene var. *chlorolepis* (Fern.) Beaudry, *Nat. Canad.* 91:194. 1964. *Solidago glutinosa* Nutt. var. *chlorolepis* (Fern.) Ringius, Taxon 36:157. 1987. TYPE: CANADA. Quebec: Mt. Albert, gulch north of Lac au Diable, and crevices talus of serpentine, Collins & Fernald 750 (HOLOTYPE: GH!).

Solidago simplex Kunth ssp. *randii* (Porter) Ringius, *comb. nov.* BASIONYM: *Solidago virgaurea* L. var. *randii* Porter, Bull. Torrey Bot. Club 20:208. 1893. *Solidago glutinosa* Nutt. ssp. *randii* (Porter) Cronq., Rhodora 49:77. 1947. *Solidago spathulata* DC. ssp. *randii* (Porter) Gleason, *Phytologia* 4:25. 1952. SYNTYPES: U.S.A. Maine: Mt. Desert Is., Great Cranberry Is., Spurling Point, 30 Aug 1892, E.L. Rand s.n. (LECTOTYPE [Ringius, Taxon 36:156. 1987.]: NY ex Herb. Columbia Col!; has Porter's hand written label; Isolectotypes: DAO!, NY!): U.S.A. Vermont: "shores of Lake Champlain," Pringle s.n. (GH!, NY-2!, PH!).

Solidago simplex Kunth ssp. *randii* (Porter) Ringius var. *monticola* (Porter) Ringius, *comb. nov.* BASIONYM: *Solidago puberula* Nutt. var. *monticola* Porter, Bull. Torrey Bot. Club 19:129. 1892. *Solidago randii* (Porter) Britt. var. *monticola* Fern., Rhodora 10:88. 1908. SYNTYPES: U.S.A. Maine: Mt. Kineo, Moosehead Lake, 28 Aug 1871, Porter s.n. (LECTOTYPE [Ringius, Taxon 36:156. 1987.]: PH ex Herb. Porter!).

Mount Desert Is., Dog Mount, *Rand* (NY!). New Hampshire: Mt. Monadnock, *Deane* (NY!).

Solidago simplex Kunth ssp. *randii* (Porter) Ringius var. *racemosa* (E. Greene) Ringius, *comb. nov.* BASIONYM: *Solidago racemosa* E. Greene, Pittonia, 3:160. 1897. *Solidago purshii* Porter var. *racemosa* (E. Greene) Farwell, Amer. Midl. Nat. 11:84. 1928. *Solidago glutinosa* Nutt. ssp. *randii* (Porter) Cronq. var. *racemosa* (E. Greene) Cronq., Rhodora 49:77. 1947. *Solidago spathulata* DC. ssp. *randii* (Porter) Gleason var. *racemosa* (E. Greene) Gleason, Phytologia 4:25. 1952. TYPE: U.S.A. Maryland: Great Falls of the Potomac River, near Broadwater, 18 Oct 1896, *D.L. Topping s.n.* (LECTOTYPE [Ringius, Taxon 36:156. 1987.]: ND-G 054308!; Isolectotype: NY!).

Solidago simplex Kunth ssp. *randii* (Porter) Ringius var. *gillmanii* (A. Gray) Ringius, *comb. nov.* BASIONYM: *Solidago humilis* Pursh var. *gillmani* A. Gray, Proc. Amer. Acad. 17:191. 1882. *Solidago racemosa* E. Greene var. *gillmanii* (A. Gray) Fern., Rhodora 10:91. 1908. *Solidago virgaurea* L. var. *gillmanii* (A. Gray) Porter, Bull. Torrey Bot. Club 20:290. 1893. *Solidago gillmani* (A. Gray) Steele, Contrib. U.S. Nat. Herb. 13:367. 1911. *Solidago purshii* Porter var. *gillmanii* (A. Gray) Farwell, Amer. Midl. Nat. 12:73. 1930. *Solidago glutinosa* Nutt. ssp. *randii* (Porter) Cronq. var. *gillmani* (A. Gray) Cronq., Rhodora 49:77. 1947. *Solidago spathulata* DC. ssp. *randii* (Porter) Gleason var. *gillmani* (A. Gray) Gleason, Phytologia 4:25. 1952. SYNTYPES: "on sand hillocks on the shores of Lakes Superior and Michigan." U.S.A. Michigan: S shore of Lake Superior, 1879, *Boott s.n.* (LECTOTYPE [Ringius, Taxon 36:155. 1987.]: GH!); 1875, *Boott s.n.* (GH!, NY!); St. Joseph, 10 Oct 1872, *Gillman 3* (GH!, NY!). Ringius (1987a) discusses other possible syntypes. Orthographic variants: *gillmani*, *gilmanii*.

Solidago simplex Kunth ssp. *randii* (Porter) Ringius var. *ontarioensis* (Ringius) Ringius, *comb. nov.* BASIONYM: *Solidago glutinosa* Nutt. var. *ontarioensis* Ringius, Phytologia 62:432. 1987. TYPE: CANADA. Ontario: Algoma Dist.: Michipigoten Harbour, coastal rocks, 25 Aug 1984, *Ringius 1987* (HOLOTYPE: WAT!).

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CAREX EXILIS DEWEY (CYPERACEAE) NEW TO ALABAMA

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ABSTRACT

Carex exilis Dewey is reported new to Alabama from Mobile and Baldwin counties. Its habitat in Alabama is discussed, and related to *Carex exilis* habitats in adjacent southern Mississippi.

KEY WORDS: *Carex exilis*, Cyperaceae, Alabama, seepage herb bogs

Carex exilis Dewey (section *Stellulatae*) is primarily a north temperate boreal sedge, occurring in fens and bogs from Delaware and Maryland north along the Atlantic coast to Newfoundland, and inland from New York to Minnesota, Michigan, and northwestern Ontario (Reznicek & Ball 1980; Bryson, *et al.* 1988). All of the previous records south of Delaware are disjunct occurrences on the coastal plain of North Carolina (Moore County), and six southern Mississippi counties (Greene, George, Harrison, Jackson, Pearl River, and Stone) (Bryson, *et al.* 1980; Reznicek & Ball 1980). Our recent discovery of *C. exilis* from Mobile County, Alabama is therefore not unexpected, since it is known from three adjacent Mississippi counties. Our Baldwin County collection was somewhat less predictable since the extensive alluvial plain associated with the rivers entering Mobile Bay may represent a significant phytogeographic barrier for seepage adapted species. The collection data for our Alabama specimens are as follows:

Carex exilis Dewey (Cyperaceae). UNITED STATES. Alabama: Baldwin Co.: Hillside streamhead seepage herb bog on S side of US 90, 2.2 mi W of

Seminole, ca. 0.5 air mi SW of Seminole Church, ca. 3.9 mi W of Perdido River and Florida state line; EH, SWQ, SEQ, NWQ, Sec. 18, T6S, R6E, Elsanor 7.5' Quad., 30° 31' 31" N, 87° 30' 30" W. Elev. 50-65 ft., 28 March 1991, *Orzell & Bridges 16192* (TEX, MICH), 8 April 1991, *Orzell & Bridges 16287* (TEX, VDB, MICH). Mobile Co.: Hillside seepage shrub-herb bog on S side of Beverly-Jefferies Rd (Co Rd 96), 7.1 mi W of int. US 45 in Citronelle, 1.3 mi W of Ramey Rd and 1.6 mi E of Escatawpa River bridge; NWQ, SWQ, NEQ, NEQ, Sec. 2, T1N, R4W, Citronelle West 7.5' Quad., 31° 04' 49" N, 88° 21' 04" W. Elev. 160-180 ft., 8 April 1991, *Orzell & Bridges 16275* (TEX, VDB, MICH).

This exceptionally distinct member of section *Stellulatae* is easily recognized by its large, terminal inflorescences and densely tufted involute leaves (Reznicek & Ball 1980). Our Alabama specimens fall well within the range of morphological variation noted for the species in Reznicek & Ball (1980). The culms of the Alabama plants tend to be at the larger end of the range for the species, generally from 40-60 cm tall. The infructescences range from 10-25 mm long, averaging 18 mm long. The typical infructescence is staminate for the lower 60% of its length and pistillate for the upper 40%, although a continuous range of variation from this mean to completely dioecious staminate and pistillate infructescences are present within a single population. The perigynia are generally 3-4 mm long and 1.5 mm wide, with beak and nerving characters typical for the species as described by Reznicek & Ball (1980).

At both of the Alabama sites *Carex exilis* is restricted to acidic, sapric, organic muck, which is constantly saturated by copious, oligotrophic, telluric groundwater. *Carex exilis* is restricted to the muckiest soils of these bogs, on spongy peaty substrates, frequently occurring at or near permanent seep spring runs within the hillside seepage-bogs. In these microhabitats it is often the dominant species, a situation also noted by Bryson, *et al.* (1988) for *C. exilis* in adjacent southern Mississippi. The microhabitat for *C. exilis* at the Alabama sites is nearly identical to that described for Mississippi by Bryson, *et al.* (1988). The major difference is that both of the Alabama sites are from slightly sloping hillside seepage bogs whereas the majority of the Mississippi sites are from nearly level deep mucky peat, quaking, streamhead seepage bogs (Bryson, *et al.* 1988; Orzell & Bridges, personal observation). Although the topo-edaphic-hydrologic conditions for quaking streamhead bogs occur in southern Alabama, the vast majority of these quaking bogs are overgrown with semi-evergreen broadleaf shrubs and trees, due to long term fire suppression (Orzell & Bridges, personal observation). In contrast, many of the same habitats (quaking bogs) in adjacent southern Mississippi are being maintained through prescribed burning.

Taxa strongly associated with *Carex exilis* at both Alabama sites include *Rhynchospora stenophylla* Chapm., *R. macra* (Clarke) Small, *Xyris chapmanii* Bridges & Orzell, *X. scabrifolia* Harper, and *Lachnocaulon digynum* Körn.

Other associates which occur at both sites include *Chaptalia tomentosa* Vent., *Eriocaulon texense* Körn., *Helenium brevifolium* (Nutt.) A. Gray, *Pinguicula primuliflora*, *Sarracenia leucophylla* Raf., *S. purpurea* L., and *Utricularia subulata* L. At the Mobile County site other associates include *Bidens mitis* (Michx.) Sherff, *Juncus trigonocarpus* Steud., *Utricularia juncea* Vahl, and *Zigadenus glaberrimus* Michx. *Lindera subcoriacea* B.E. Wofford, although not closely associated with *C. exilis*, also occurs at the Mobile County site (Bridges & Orzell 1989), and was noted by Bryson, *et al.* (1988) at fourteen of the sixteen *Carex exilis* sites in Mississippi. At the Baldwin County site other taxa which occur with *C. exilis* include *Aristida virgata* Trin., *Arnoglossum sulcatum* (Fern.), *Centella asiatica* (L.) Urban, *Drosera tracyi* Macfar., *Eriocaulon compressum* Lam., *Ilex coriacea* (Pursh) Chapm., *Magnolia virginiana* L., *Pilea tenuifolia* Michx., *Pogonia ophioglossoides* (L.) Ker., *Rhynchospora latifolia* (Ell.) Thomas, *Smilax laurifolia* L., and *Syngonanthus flavidulus* (Michx.) Ruhl. The apparently greater diversity of associated taxa at the Baldwin County site is likely due to the increased flowering resulting from a growing season burn in 1990.

Our observations at both Alabama sites and several sites in southern Mississippi suggest some differences in taxa associated with *Carex exilis*, from those noted by Bryson, *et al.* (1988) in Mississippi. *Carex turgescens* Torr., a fidel associate of *C. exilis* in Mississippi (Bryson, *et al.* 1988, Orzell & Bridges, personal observation) was not closely associated with *C. exilis* at the Alabama sites, despite the fact that it occurs at the Alabama sites. In contrast, we found *Rhynchospora stenophylla*, *R. macra*, *Xyris chapmanii*, *X. scabrifolia*, and less frequently *Lachnocaulon digynum* to be the most constant closely associated species at sites we surveyed in both states. With the exception of *R. stenophylla* and *X. chapmanii*, all are listed as taxa which may occur among populations of *Carex exilis* by Bryson, *et al.* (1988). *Xyris chapmanii* is not listed by Bryson, *et al.* (1988) since it was recently described as a new species (Bridges & Orzell 1990).

The discovery of *Carex exilis* from southern Alabama, although not totally unexpected, further emphasizes the need for systematic field work in specialized and restricted habitats in the Gulf Coastal Plain. Despite the fact that nearly 1,900 taxa have been documented from Mobile and Baldwin counties in Alabama (Lelong 1988a, 1988b), and the recent reports of many noteworthy and new taxa from these counties (Kral 1973, 1976, 1981; Lelong 1988a, 1988b) these counties, and others in adjacent states, still have the potential to produce phytogeographically significant records (Bridges & Orzell 1989).

ACKNOWLEDGMENTS

We wish to thank Guy Nesom and Carol Todzia at TEX for their helpful

review comments. This paper is published in honor of the retirement of Distinguished Professor Robert H. Mohlenbrock, Department of Botany, Southern Illinois University.

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INDEX TO REVIEWERS IN VOLUME 70

The editor expresses his most sincere appreciation to the following individuals. These are persons who have reviewed papers that were submitted for publication in volume 70 of *Phytologia*. Without the willingness and diligence of these reviewers, the task of the editor would be much more difficult, and the quality of the papers published would be lessened. To each of you, I offer my most sincere thanks.

Michael J. Warnock, Editor.

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CORRECTIONS AND ADDITIONS

Volume 67, number 6, December 1989, page 463, line 19, the new combination should be *Nuphar lutea* (L.) Sibth. & Sm. ssp. *advena* (Ait.) Kartesz & Gandhi (feminine rather than neuter). This may be treated as an orthographic error and will not affect the effective date of publication.

Volume 69, number 6, December 1990, cover page should read "No. 6" not "No. 5."

Volume 70, number 4, April 1991, cover page should include an additional article beginning on page 234, "J.L. REVEAL, On the lectotypification of *Aster infirmus* Michx. (Asteraceae)." Corrected versions of the cover were mailed to all subscribers with issue 5 of volume 70.

Volume 70, number 4, April 1991, page 230, line 1, "*pigmaea*" should be boldface.

Volume 70, number 4, April 1991, page 232, line 33, "*Mesyniopsis*" should be boldface.

Volume 70, number 4, April 1991, page 239, line 7, column 2, insert a comma between 348 and 354.

Volume 70, number 4, April 1991, page 248, line 6, column 2, the citation for *Billbergia* should read "4:382,383".

Volume 70, number 4, April 1991, page 252, line 32, column 1, insert a comma between 125 and 286.

Volume 70, number 4, April 1991, page 253, line 31, column 1, the citation for *Callicarpa longivillosa* should read "4:268".

Volume 70, number 4, April 1991, page 263, line 10, column 1, *milneredheadi* should be boldface.

Volume 70, number 4, April 1991, page 292, line 38, column 1, insert a comma between 78 and 106.

Volume 70, number 4, April 1991, page 292, line 22, column 2, the citation for *Lantana nigeriensis* should read "3:272".

Volume 70, number 4, April 1991, page 299, line 10, column 1, replace "*Macrostegia*" with "*Macrostegia*".

Volume 70, number 4, April 1991, page 314, line 13, column 2, insert "*parryana* 2:266" as an infraspecific category under *Pinus cembrioides*.

Volume 70, number 4, April 1991, page 315, line 16, column 1, delete "*parryana* 2:266".

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